

Abstract

An oral inhaler suitable for delivering a pharmaceutical formulation to a patient that includes a container having the pharmaceutical formulation including at least one medicament present therein, and a mouthpiece configured for oral engagement with a patient and in communication with the container, wherein the mouthpiece has an inner surface and an outer surface, is described. The outer surface of the mouthpiece contains at least one longitudinally-extending disuniformity such that when the patient orally engages the mouthpiece at least one void space is created between the outer surface of the mouthpiece and the oral cavity of the patient so as to provide an air flow channel through the at least one void space to facilitate intake of the at least one medicament by the patient.